

**ABSTRACT**

The invention relates to a method for controlling directly and in real time the positioning 5 of a biological element on a zone of a support, in which, this biological element being labelled with a tracer which emits a light radiation and the zone of the support on which it must be positioned being located in a layer of a material capable of trapping 10 this light radiation:

a) the biological element is allowed to become positioned on the zone of the support;

b) the intensity of the light radiation trapped in said layer is measured; and

15 c) the positioning of the biological element is determined by comparing the intensity value thus measured with at least one reference value; it being possible for steps a), b) and c) to be carried out successively or simultaneously.

20 The invention also relates to a device for applying this method to the positioning of one or more biological elements on one or more zones of a support.